Message

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Sent: 2/19/2020 12:54:26 PM
To: Rimer, Kelly [Rimer.Kelly@epa.gov]; Smith, Darcie [Smith.Darcie@epa.gov]; Davis, Alison [Davis.Alison@epa.gov]; Weinstock, Lewis [Weinstock.Lewis@epa.gov]
Subject: Revised TCEQ Ethylene Oxide Effects Screening Level (ESL) Development Support Document (DSD)

TCEQ posted this on their website. I'll look for their comments on the MON in the electronic docket. They are not posted yet.

The agency received numerous comments on the proposed DSD from diverse groups (industry, academia, NGOs, and private citizens). Scientifically substantive comments were reviewed and fully addressed by the TCEQ, which has resulted in a revised and improved draft EtO DSD (dated January 31, 2020) that is currently undergoing external expert peer review. Both the response to public comments and revised draft EtO DSD are posted on this webpage.

The external expert scientific peer review is expected to conclude within the next few months. This thorough and extensive scientific peer review process will culminate in the final TCEQ DSD. The final DSD for EtO will incorporate the best available science in deriving an inhalation unit risk factor and an associated long-term effects screening level, which will be used by TCEQ's air permitting program.

https://www.tceq.texas.gov/toxicology/ethylene-oxide

Ethylene Oxide Development Support Document (DSD)

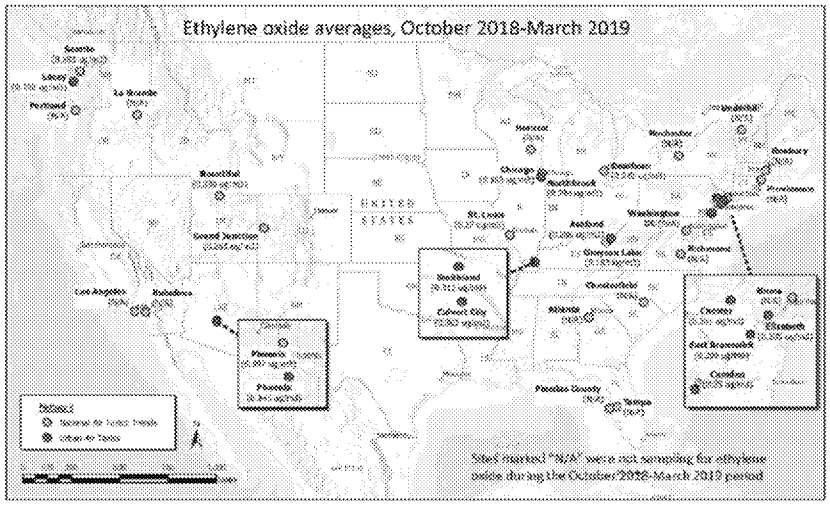
This page contains the proposed Ethylene Oxide DSD, background for the review, and information about the next steps in the process.

NEW Ethylene Oxide Carcinogenic Dose-Response Assessment Revised Draft DSD (revised January 31, 2020)

NEW Response to Public Comments Received: Ethylene Oxide Draft DSD

Background and What's Ahead
Background
What's Ahead
Key Points From The TCEQ Ethylene Oxide Carcinogenic Dose-Response Assessment
Assessment Basis
Early Childhood Adjustment
Cancer Assessment
Model Fit
Endogenous Production
Healthy Worker Effect
Urban Background Ethylene Oxide Concentrations Across The United States

National Air Toxics Trends and Urban Air Toxics monitoring sites



Urban background EtO concentrations were ≈0.1-0.2 ppb (0.185-0.397 µg/m^3) with an average of 0.16 ppb (0.297 µg/m^3) based on data collected for 18 sites.

If representative, urban background concentrations across the U.S. may be expected to be ≈10-20 times the maximum long-term level of 0.01 ppb that USEPA considers safe based on their demonstrably flawed EtO dose-response assessment.

By contrast, these urban background concentrations do not exceed TCEQ's long-term value of 2.4 ppb EtO based on a more recent and scientifically defensible assessment and a 1 in 100,000 excess risk level.

Excess Risk Level	TCEQ (ppb)	TCEQ (µg/m^3)	USEPA (ppb)	USEPA (µg/m^3)
1 in 10,000	24	43	0.01	0.02
1 in 100,000	2.4	4.3	0.001	0.002
1 in 1,000,000	0.24	0.43	0.0001	0.0002

TCEQ Responses To News Reporter's Questions

Chicago Tribune

Houston Chronicle